Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-13 (cancelled).

- 14. (previously presented) An assay for selecting a compound useful for treating epilepsy or other neurological disorders which modulates inactivation of a sodium channel comprising:
 - a) an SCN3A nucleic acid sequence which encodes an SCN3A sodium channel or a functional fragment thereof; and
 - b) assaying a function of said sodium channel;
 - wherein a compound is selected when a difference is observed between the inactivation of said sodium channel in the presence of a test agent, as compared to in the absence thereof.
- 15. (previously presented) The method of claim 14, wherein said SCN3A nucleic acid sequence is a mammalian SCN3A sequence.
- 16. (previously presented) An assay for selecting a compound useful for treating epilepsy or other neurological disorders which modulates the activity of a sodium channel comprising:
 - a) an SCN3A nucleic acid sequence which encodes an SCN3A sodium channel or a functional fragment thereof; and
 - b) assaying an activity of said sodium channel;
 - wherein a compound is selected when a difference is observed between the activity of said sodium channel in the presence of said test agent, as compared to in the absence thereof.

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- 17. (previously presented) The assay of claim 16, wherein said SCN3A nucleic acid sequence is a mammalian SCN3A sequence.
- 18. (previously presented) The assay of claim 17, wherein said SCN3A nucleic acid sequence is a mammalian SCN3A sequence.
- 19. (previously presented) The assay of claim 18, wherein said mammalian SCN3A nucleic acid sequence is selected from among mouse, rat and human SCN3A.
- 20. (previously presented) The assay of claim 19, wherein said mammalian SCN3A nucleic acid sequence is human.
- 21. (previously presented) The assay of claim 20, wherein said SCN3A nucleic acid sequence is a human sequence comprising SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO: 402, SEQ ID NO: 403, SEQ ID NO: 404, SEQ ID NO: 405, SEQ ID NO: 406 or SEQ ID NO: 407, or an allelic variant thereof, or 95% sequence identity to SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO: 402, SEQ ID NO: 403, SEQ ID NO: 404, SEQ ID NO: 405, SEQ ID NO: 406 or SEQ ID NO: 407.
- 22. (previously presented) The assay of claim 21, wherein said SCN3A nucleic acid sequence is SEQ ID NO: 65, SEQ ID NO: 66, SEQ ID NO: 69, SEQ ID NO:70, SEQ ID NO: 71, SEQ ID NO: 72, SEQ ID NO:73, SEQ ID NO: 74, SEQ ID NO: 75, SEQ ID NO: 76, SEQ ID NO: 77, SEQ ID NO:78, SEQ ID NO: 79, SEQ ID NO: 80, SEQ ID NO: 81, SEQ ID NO: 82, SEQ ID NO: 83, SEQ ID NO: 84, SEQ ID NO: 85, SEQ ID NO: 86, SEQ ID NO: 87, SEQ ID NO: 88, SEQ ID NO: 89, SEQ ID NO: 90, SEQ ID NO: 91, SEQ ID NO: 92, SEQ ID NO: 93, SEQ ID NO: 94, SEQ ID NO: 95, SEQ ID NO: 96, SEQ ID NO: 97, or SEQ ID NO: 98, or an allelic variant thereof.
- 23. (previously presented) The assay of claim 21, wherein said sequence has 95% sequence identity to SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO: 402, SEQ ID NO: 403, SEQ ID NO: 404, SEQ ID NO: 405, SEQ ID NO: 406 or SEQ ID NO: 407.

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- 24. (previously presented) The assay of claim 16, wherein said SCN3A nucleic acid sequence encodes an amino acid sequence comprising SEQ ID NO: 67 or SEQ ID NO: 68, or a fragment thereof.
- 25. (previously presented) The assay of claim 16 wherein said assaying is performed in a cell-free system.
- 26. (previously presented) The method of claim 16 wherein said assaying is performed with a whole cell.
- 27. (previously presented) The method of claim 16 wherein said screening assay is a cell-free system.
- 28. (previously presented) The method of claim 16, wherein said SCN3A sequence is a recombinant form of SCN3A.
- 29. (previously presented) A method for identifying, from a library of test compounds, a compound having a therapeutic effect on epilepsy or other neurological disorders comprising:
 - a) providing a screening assay which comprises a measurable SCN3A biological activity;
 - b) contacting said screening assay with a test compound; and
 - c) detecting if said test compound modulates said SCN3A biological activity;
 - wherein a test compound which modulates said biological activity is identified as a compound with said therapeutic effect.
- 30. (previously presented) The method of claim 29, wherein said assay comprises an expression vector comprising an SCN3A nucleic acid sequence which encodes said sodium channel or functional fragment thereof.

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- 31. (previously presented) The method of claim 29, wherein said screening assay is a whole cell system.
- 32. (previously presented) The method of claim 29, wherein said SCN3A nucleic acid sequence is comprised in an expression vector.
- 33. (previously presented) The method of claim 32 wherein said expression vector is comprised in a cell.